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CENTRAL INTELLIGENCE AGENCY

REPORT

## INFORMATION REPORT

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1. The Bergmann-Elektrizitäts-Werke A.G. is rapidly being provided with machinery and first priority is given to the plant by the D.M.K. Two hundred machines are already available, including a center lathe for turning shafts (Wellen) and inductors, large horizontal boring machines and lathes with horizontal face plates, the blades having diameters of up to 3 meters. Some of the smaller and medium-sized machines are new and were supplied from current Russian Zone production. The present system has one disadvantage, namely, that the machines have to be used for both rough and precision work rather than for turbine construction alone. At the moment there is a shortage of 30-40 milling machines, but this deficiency can probably be made up from various factories in the Soviet Zone which have surplus milling capacity.

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2. Approximately twenty-five tons of metal for turbine blades are now available in stock at the works. [redacted] obtained [redacted] from Czechoslovakia. Most of the latter was delivered in profile form. It is hoped, however, that in the future it will be possible to obtain all the necessary material within the Soviet Zone and thus eliminate the necessity of importing from abroad.

3. Should Bergmann's machine capacity not be sufficient for the work on hand at any time, the factory has the right to co-opt the following firms:

Görlitzer Maschinenfabrik  
Turbinenfabrik Brückner & Kanis, Dresden  
Deutsche Niles-Werke, Weissensee and Chemnitz

4. In the future, the Hennigsdorf steel works will provide the special metals for turbine shafts and blades. Various blocks have already been cast and are now being rolled or forged. Prof. Baukloh is in charge of this work. The cast iron jet covers and the jet plates will, however, be supplied by the Görlitzer works.
5. The general state of turbines in the Russian Zone is very bad and it will be several years before the necessary repairs can be carried out. Repairs that can be undertaken at the present time are limited in scope and are being confined to the renewal of blades and jet covers and repairs to massive inductors. Only the Brown-Boveri, Siemens and Görlitzer Maschinenfabrik types are being dealt with at the moment.

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6. Production of new turbines will certainly not be possible this year. It is tentatively planned for Brückner & Kanis to build turbines up to 2,000 KW, G8rlitzer Maschinenfabrik from 2,000 to 5,000 KW and the Bergmann Elektrizitäts-Werke up to 25,000 KW.
7. Experiments in the mass production of blades by pressing are being carried out at Kabelwerk-Oberspreew. These experiments are now in an advanced stage and the probability of complete success is considerable.

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